

November 18, 1988

Mr. Burt Nordstrand
Croixland Properties
512 Second Street
Hudson, WI 54016

Re: Croixland Park Planning
Hudson, Wisconsin
Project No. 88154-00

Dear Mr. Nordstrand:

CROIXLAND PARKING LIGHTING CRITERIA

Parking Lot Lighting

High Pressure Sodium fixtures will be provided to yield an average illumination level of two footcandles in the parking lot with a uniformity ratio approaching 3:1.

Fixtures located around the perimeter of the site will have forward throw characteristics (sharp "house-side" cutoff).

All fixtures proposed will have sharp cutoff characteristics in the direction of forward throw.

Racetrack Lighting

The racetrack itself will be illuminated by fixtures with Metal Halide lamps to a level suitable for television operations: 100 to 125 footcandles in front of the grandstand and starting gate and decrease to about 50 footcandles on the backstretch.

The fixtures will be specified and aimed such that these illumination levels are limited to the racetrack itself, not the track infield.

Kennel Lighting

The kennel area will be lit by Metal Halide fixtures to a level of 10 footcandles.

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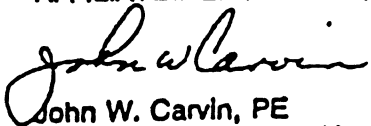
Comments

The fact that the residential area to the south of the site and the farmland to the east are located on a hill is fortunate in that direct glare from lighting fixtures should not pose a problem.

The reflected ground glare however will be noticed across the night sky.

Sincerely,

AFFILIATED ENGINEERS, INC.



John W. Carvin, PE
Electrical Department Head

jwc/tjn